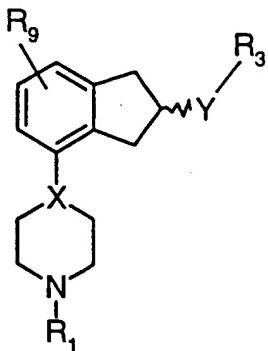


CLAIMS

1. A compound having the formula I

5



(I)

wherein

X is N or CH;

10 Y is NR₂CH₂, CH₂NR₂, NR₂CO, CONR₂ or NR₂SO₂

wherein R₂ is H or C₁-C₆ alkyl;

R₁ is H, C₁-C₆ alkyl or C₃-C₆ cycloalkyl;

R₃ is C₁-C₆ alkyl, C₃-C₆ cycloalkyl or (CH₂)_n-aryl,

wherein aryl is phenyl or a heteroaromatic ring containing one or two heteroatoms selected from N, O and S and which may be mono- or di-substituted with R₄ and/or R₅;

wherein R₄ is H, C₁-C₆ alkyl, C₃-C₆ cycloalkyl, halogen, CN, CF₃, OH,

C₁-C₆ alkoxy, NR₆R₇, OCF₃, SO₃CH₃, SO₃CF₃, SO₂NR₆R₇, phenyl, phenyl-C₁-C₆ alkyl, phenoxy, C₁-C₆ alkylphenyl, an optionally substituted heterocyclic ring containing one or two heteroatoms selected from N, O, S, SO and SO₂

20 wherein the substituent(s) is(are) selected from C₁-C₆ alkyl, C₃-C₆ cycloalkyl and phenyl-C₁-C₆ alkyl, an optionally substituted heteroaromatic ring containing one or two heteroatoms selected from N, O and S wherein the substituent(s) is(are) selected from C₁-C₆ alkyl, C₃-C₆ cycloalkyl and phenyl-C₁-C₆ alkyl, or COR₈;

wherein R₆ is H, C₁-C₆ alkyl or C₃-C₆ cycloalkyl;

R₇ is H, C₁-C₆ alkyl or C₃-C₆ cycloalkyl; and

R₈ is C₁-C₆ alkyl, C₃-C₆ cycloalkyl, CF₃, NR₆R₇, phenyl, a heteroaromatic ring containing one or two heteroatoms selected from N, O and S or a heterocyclic ring containing one or two heteroatoms selected from N, O, S, SO and SO₂;

5

wherein R₅ is H, OH, CF₃, OCF₃, halogen, C₁-C₆ alkyl or C₁-C₆ alkoxy;

n is 0-4;

10

R₉ is H, C₁-C₆ alkyl, C₃-C₆ cycloalkyl, OCF₃, OCHF₂, OCH₂F, halogen, CN, CF₃, OH, C₁-C₆ alkoxy, C₁-C₆ alkoxy-C₁-C₆ alkyl, NR₆R₇, SO₃CH₃, SO₃CF₃, SO₂NR₆R₇, an unsubstituted or substituted heterocyclic or heteroaromatic ring containing one or two heteroatoms selected from N, O and S, wherein the substituent(s) is(are) C₁-C₆ alkyl; or
15 COR₈; wherein R₆, R₇ and R₈ are as defined above,

as (R)-enantiomers, (S)-enantiomers or a racemate in the form of a free base or a pharmaceutically acceptable salt or solvate thereof.

20 2. A compound according to claim 1 wherein Y is NR₂CO or CONR₂.

3. A compound according to any one of claims 1-2 wherein X is N.

4. A compound according to any one of claims 1-3 wherein R₁ is H or C₁-C₆ alkyl.

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5. A compound according to any one of claims 1-4 wherein R₃ is (CH₂)_n-aryl.

6. A compound according to any one of claims 1-4 wherein R₃ is (CH₂)_n-aryl which is substituted with R₄, which is an optionally substituted heterocyclic or heteroaromatic ring containing one or two heteroatoms selected from N, O and S, or COR₈.
30

7. A compound according to any one of claims 5 and 6 wherein n is 0.
8. A compound according to claim 6 wherein R₈ is NR₆R₇ or a heterocyclic ring
5 containing two heteroatoms selected from N and O.
9. A compound according to any one of claims 1-8 wherein R₉ is H, C₁-C₆ alkyl, OCHF₂, halogen or C₁-C₆ alkoxy.
10. A compound according to any one of claims 1- 9 wherein X is N, Y is NR₂CO and R₉
is C₁-C₆ alkoxy.
11. A compound according to claim 10 wherein X is N, Y is NR₂CO, R₄ is morpholino or
COR₈ and R₉ is C₁-C₆ alkoxy.
- 15
12. A compound according to any one of claims 1- 9 wherein X is N, Y is NR₂CO and R₉
is C₁-C₆ alkyl.
13. A compound according to claim 12 wherein X is N, Y is NR₂CO, R₄ is morpholino or
20 COR₈ and R₉ is C₁-C₆ alkyl.
14. A compound according to any one of claims 1- 9 wherein X is N, Y is NR₂CO and R₉
is H.
- 25
15. A compound according to claim 14 wherein X is N, Y is NR₂CO, R₄ is morpholino or
COR₈ and R₉ is H.
16. A compound which is 4-(4-methylpiperazin-1-yl)-N-(4-morpholinophenyl)indan-2-
carboxamide in the form of a free base or a pharmaceutically acceptable salt or solvate
30 thereof.

17. A pharmaceutical formulation comprising as active ingredient a therapeutically effective amount of the compound of any one of claims 1-16 as an enantiomer or racemate in the form of a free base or a pharmaceutically acceptable salt or solvate thereof optionally
5 in association with diluents, excipients or inert carriers.
18. A pharmaceutical formulation according to claim 17 for use in the treatment of 5-hydroxytryptamine mediated disorders.
19. A pharmaceutical formulation according to any one of claims 17 or 18 for use in the treatment of mood disorders, anxiety disorders, personality disorders, obesity, anorexia, bulimia, premenstrual syndrome, sexual disturbances, alcoholism, tobacco abuse, autism, attention deficit, hyperactivity disorder, migraine, memory disorders, pathological aggression, schizophrenia, endocrine disorders, stroke, dyskinesia, Parkinson's disease,
15 thermoregulatory disorders, pain, hypertension, urinary incontinence or vasospasm; or for growth control of tumors.
20. A compound as defined in any of claims 1-16 for use in therapy.
- 21 A compound as defined in claim 20 for use in the treatment of disorders in the central nervous system.
22. A compound as defined in claim 21 for use in the treatment of mood disorders, anxiety disorders, personality disorders, obesity, anorexia, bulimia, premenstrual syndrome, sexual
25 disturbances, alcoholism, tobacco abuse, autism, attention deficit, hyperactivity disorder, migraine, memory disorders, pathological aggression, schizophrenia, endocrine disorders, stroke, dyskinesia, Parkinson's disease, thermoregulatory disorders, pain or hypertension.
23. A compound as defined in claim 22 for use in the treatment of urinary incontinence or
30 vasospasm or for growth control of tumors.

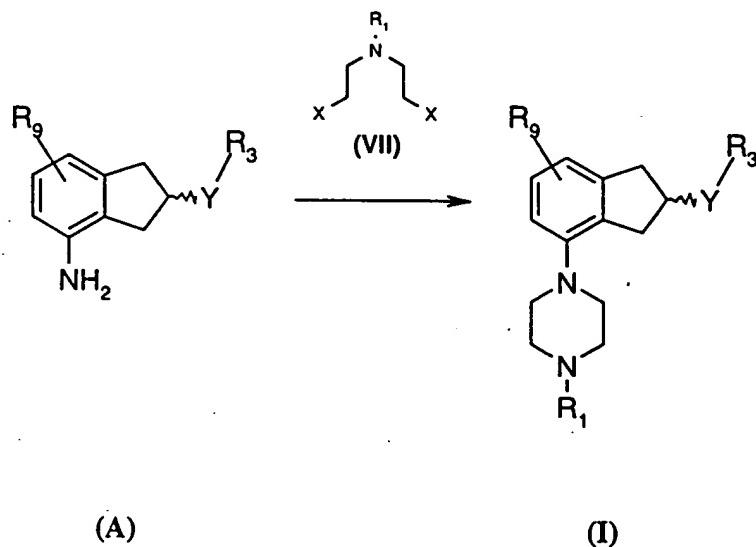
24. A compound as defined in claim 20 for use in the treatment of 5-hydroxytryptamine mediated disorders.
- 5 25. A compound as defined in claim 24 for use as a h5-HT_{1B} antagonist.
26. The use of a compound defined in any of claims 1-16 in the manufacture of a medicament for the treatment of disorders in the central nervous system and/or urinary incontinence or vasospasm; or for growth control of tumors.
- 10
27. The use according to claim 26 in the manufacture of a medicament for the treatment of mood disorders, anxiety disorders, personality disorders, obesity, anorexia, bulimia, premenstrual syndrome, sexual disturbances, alcoholism, tobacco abuse, autism, attention deficit, hyperactivity disorder, migraine, memory disorders, pathological aggression,
- 15 schizophrenia, endocrine disorders, stroke, dyskinesia, Parkinson's disease, thermoregulatory disorders, pain or hypertension.
28. The use of a compound defined in any of claims 1-16 in the manufacture of a medicament for the treatment of 5-hydroxytryptamine mediated disorders.
- 20
29. The use according to claim 28 wherein the compound according to any one of claims 1-16 is used as a h5-HT_{1B} antagonist.
30. A method for the treatment of disorders in the central nervous system and/or urinary incontinence or vasospasm or for growth control of tumors by administering to a mammal including man in need of such a treatment a therapeutically effective amount of a compound defined in any of claims 1-16.
31. A method according to claim 30 for the treatment of mood disorders, anxiety disorders, personality disorders, obesity, anorexia, bulimia, premenstrual syndrome, sexual

disturbances, alcoholism, tobacco abuse, autism, attention deficit, hyperactivity disorder, migraine, memory disorders, pathological aggression, schizophrenia, endocrine disorders, stroke, dyskinesia, Parkinson's disease, thermoregulatory disorders, pain or hypertension.

- 5 32. A method for the treatment of 5-hydroxytryptamine mediated disorders by
administering to a mammal including man in need of such a treatment a therapeutically
effective amount of a compound defined in any of claims 1-16.

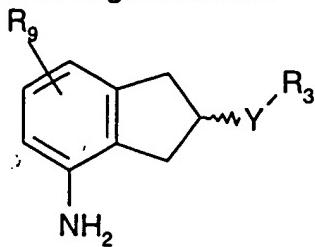
10 33. A method according to claim 32 wherein the compound according to any one of claims
1-16 is used as a h5-HT_{1B} antagonist.

34. A process for the preparation of the compound of formula I according to claim 1 by
reacting, in the case where Y is CONR₂, R₁, R₂, R₃ and R₉ is as defined in general
formula I in claim 1, a compound of formula A



- 20 with a compound of formula VII, wherein X is a leaving group.

35. A compound having the formula



wherein

- 5 Y is CONR₂ wherein R₂ is H or C₁-C₆ alkyl
R₃ is C₁-C₆ alkyl, C₃-C₆ cycloalkyl or (CH₂)_n-aryl,
wherein aryl is phenyl or a heteroaromatic ring containing one or two heteroatoms selected from N, O and S and which may be mono- or di-substituted with R₄ and/or R₅;
- 10 wherein R₄ is H, C₁-C₆ alkyl, C₃-C₆ cycloalkyl, halogen, CN, CF₃, OH, C₁-C₆ alkoxy, NR₆R₇, OCF₃, SO₃CH₃, SO₃CF₃, SO₂NR₆R₇, phenyl, phenyl-C₁-C₆ alkyl, phenoxy, C₁-C₆ alkylphenyl, an optionally substituted heterocyclic ring containing one or two heteroatoms selected from N, O, S, SO and SO₂ wherein the substituent(s) is(are) selected from C₁-C₆ alkyl, C₃-C₆ cycloalkyl and phenyl-C₁-C₆ alkyl, an optionally substituted
- 15 heteroaromatic ring containing one or two heteroatoms selected from N, O and S wherein the substituent(s) is(are) selected from C₁-C₆ alkyl, C₃-C₆ cycloalkyl and phenyl-C₁-C₆ alkyl, or COR₈;
wherein R₆ is H, C₁-C₆ alkyl or C₃-C₆ cycloalkyl;
- 20 R₇ is H, C₁-C₆ alkyl or C₃-C₆ cycloalkyl; and
R₈ is C₁-C₆ alkyl, C₃-C₆ cycloalkyl, CF₃, NR₆R₇, phenyl, a heteroaromatic ring containing one or two heteroatoms selected from N, O and S or a heterocyclic ring containing one or two heteroatoms selected from N, O, S, SO and SO₂ wherein R₆ and R₇ are as defined above;

wherein R₅ is H, OH, CF₃, OCF₃, halogen, C₁-C₆ alkyl or C₁-C₆ alkoxy;

n is 0-4;

and

- s R₉ is H, C₁-C₆ alkyl, C₃-C₆ cycloalkyl, OCF₃, OCHF₂, OCH₂F, halogen, CN, CF₃, OH, C₁-C₆ alkoxy, C₁-C₆ alkoxy-C₁-C₆ alkyl, NR₆R₇, SO₃CH₃, SO₃CF₃, SO₂NR₆R₇, an unsubstituted or substituted heterocyclic or heteroaromatic ring containing one or two heteroatoms selected from N and O, wherein the substituent(s) is(are) C₁-C₆ alkyl; or COR₈; wherein R₆, R₇ and R₈ are as defined above.